What is claimed is:

- 1. A circuit board assembly comprising:
- a main board having a first face and a second face and terminating in an edge having a
- 3 mounting area, the mounting area comprising at least one mounting pad on at least one of the
- 4 first and the second faces;
- a connector board having a first face and a second face and comprising at least one
- 6 through hole between the first and second faces; and
- at least one connector pin disposed in the at least one through hole and having a portion
- 8 extending beyond each of the first and second faces of the connector board, wherein the edge
- 9 of the main board and the second face of the connector board are abutted and the portion of the
- connector pin extending beyond the second face of the connector board is attached to the at
- 11 least one mounting pad.
- 1 2. The circuit board assembly according to claim 1 wherein the at least one connector
- 2 pin further comprises a flange disposed circumferentially and located along the length of the
- 3 pin that seats against the first side of the connector board.
- 3. The circuit board assembly according to claim 1 wherein the at least one mounting
- 2 pad is a plurality of electrical contact pads located on one of the first side of the connector
- 3 board, the second side of the connector board, or combinations thereof.
- 4. The circuit board assembly according to claim 3 wherein the at least one hole in the
- 2 connector board is a plurality of holes and the at least one pin is a plurality of corresponding
- 3 connector pins inserted in the plurality of holes.

1 5. The circuit board assembly according to claim 4 wherein the plurality of pins 2 further comprise flanges disposed circumferentially and located along the length of the pins that seat against the first side of the connector board. 3 1 6. The circuit board assembly according to claim 4 wherein the plurality of connector 2 pins include at least one row of pins aligned with and attached to the plurality of electrical 3 contact pads on edge of the main board. 1 7. The circuit board assembly according to claim 6 wherein the portion of at least one row of pins extending beyond the second face of the connector board are attached to their 2 corresponding electrical contact pads of the main board by a solder connection. 3 8. The circuit board assembly according to claim 1 wherein the edge of the main 1 board adjacent the mounting area includes a slot with adjacent tab portions to receive the 2 second face of the connector board. 3 1 9. The circuit board assembly according to claim 8 wherein the connector board comprises slots for receiving the tab portions of the main board. 2 1 10. The circuit board assembly according to claim 1 wherein the pins further comprise flanges disposed circumferentially and located along the length of the pins that seat against the 2 3 first side of the connector board. 1 11. The circuit board assembly according to claim 1 wherein the main board is a printed circuit board having traces connecting at least one of the electrical contact pads to at 2 least one electrical component located on the printed circuit board. 3

12. The circuit board assembly according to claim 1 wherein the connector board is a 1 printed circuit board with traces that electrically connect the connecting pins. 2 13. A printed circuit board having at least one electrical component, the circuit board 1 comprising: 2 a first face and a second face and terminating in an edge having a mounting area, the 3 mounting area configured for receiving a connector board and comprising at least one 4 mounting pad on at least one of the first and the second faces. 5 14. The printed circuit board assembly according to claim 13, wherein the edge of the 1 main board adjacent the mounting area includes a slot with adjacent tab portions for receiving 2 3 a connector board. 15. The printed circuit board assembly according to claim 13, wherein the at least one 1 mounting pad is a plurality of electrical contact pads located on one of the first side of the 2 connector board, the second side of the connector board, or combinations thereof. 3 16. The printed circuit board assembly according to claim 13, wherein the printed 1 circuit board comprises traces connecting at least one of the electrical contact pads to at least 2 one electrical component located on the printed circuit board. 3 17. A connector board for connecting a plurality of connector pins to a printed circuit 1 board, comprising: 2 a first face and a second face and a thickness having slots for receiving a main printed 3 circuit board and at least one through hole between the first and second faces configured to 4

receive a plurality of connector pins.

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- 1 18. The connector board according to claim 17, wherein at least some of the plurality
- 2 of holes are aligned in two rows between which the slots for receiving a main printed circuit
- 3 board are located.
- 1 19. The connector board according to claim 17, wherein the each of the plurality of
- 2 holes located in the connector board comprises bonding rings plated around their periphery on
- 3 one side of the connector board.
- 1 20. The connector board according to claim 17, wherein the connector board is a
- 2 printed circuit board with traces that electrically connect the bonding rings.